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HOW HONOLULU HOUSEHOLDERS CAN AID FIGHT AGAINST MOSQUITO

PRESIDENT MOTT-SMITH OF BOARD OF HEALTH GIVES A FEW CONCISE POINTERS ON COOPERATION OF CIT-IZENS AND AUTHORITIES TO COMMON END OF GUARD-ING CITY.

thouseholder in the mosquito cam-paign the Bulletin propounded a series of eight questions covering the subject to President Mott-Smith. These eight questions have received the attention of President Mott-Smith mosquitoes about Honolulu homes? and Dr. Pratt and the answers in- mosquitoes about Honofulu homes? and Dr. Pratt and the answers indicate that many and large things are to be done if the mosquito is to be "cradicated" in the true sense of the word. As will be seen from a reading of the answers the Board of Health is of the oponion that too many householders chase the mosquito inspector off the premises or O. What, in brief, is the general many householders chase the most be diminished.

quito inspector off the premises or mistake him for a laborer instead of ap official with simple advisory pow-plan that should be adopted by the people of Honolulu to assist the people of Honolulu to assist the

The answers bear the official im- Board of Health in its work?

Q. What are the three main causes of mosquietoes in Honolulu?

A. Standing water, foliage, inand participation on the part of householders, a. Rice patches, taro patches, water tanks, tubs, buckets, leaxy fixtures, wells, cisterns, barrels, open sewers, cesspools, privy vaults, swamps, small pools, ditches, auwais, low lands, pasture lands, tin cans of all descriptions, bottles, crockery, flower pots, vaces, large shells, cuspigrease traps, tins under tables and meat safes, urns, depressins in coral, b. Banana trees,travellers tree, Il vines, large lilles, kiawe trees, hollow stumps and certain palms, c. Ordering inspectors from premises, not tanks or water barrels, not complying with advice of inspector to clean gutters or fill in depressions in ground or fix leaky fixtures, lack of interest in their own premises, not reporting to the Board of Health when troubled by mosquitoes.

What are the essential require-

ments for their eradication? A. Abolishing of rice fields, taro patches and vegetable gardens within the city limits. Auwals to be either abolished or the course cemented. Filling or draining of low lands and swamps, also holes and low places. Abolish cesspools and privy vaults. Abolish house gutters. Screen all tanks or water barrels. Destruction of trees, plants or vines which hold water long enough to allow larvae to breed. Removal of all tin cans, hottles, or other receptacles which fields in the state mentioned above hold water. Sub-soil drainage of certain areas, as for example Puunui and it is impossible for the present force to get around to all the fields before pasture lands.

Q. What can the householder do in this regards about his own place?

see that the water trough for stock see that they over-the state of the stock seed in a stock see that they over-the state of the stock seed in the stock state of the stock seed of the s

in an effort to discover the ideas vases or flower pot savens are of the Territorial Board of Health emptied each day. Can see that all concerning the co-operation of the tin caus, bottles, etc., are removed

A. Each householder accept the print and with the questions are as advice of the mosquito inspector and carry out what he requests them to do. Where there is a yard man see that he becomes interested in the difference and want of co-operation breeding places; in other words try and keep his own place free of moquitoes. Interest the children of the household. This question is also more fully answered in 3.

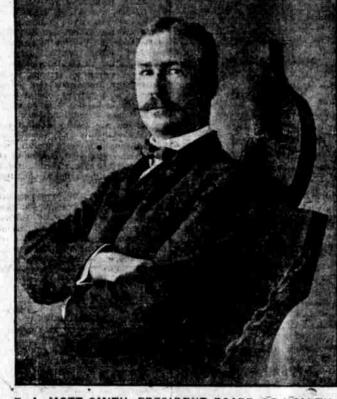
Q. What is the status of the inspectors in regard to the mosquito work?

A. Advisory, find out the places on each place where mosquitoes are dors, post holes, excavations left unthe meantime do temporary work Arouse the interest of each and every householder as far as he is able Spray breeding places with larvaecide, distribute mosquito fish.

> sanitary conditions of the city-re ferring to swamps and rice fieldscan the mosquito be reduced in numbers by the active co-operation of the householder?

A. The way to reduce mosquitoes in swamps is either to fill up the land or drain it, and to accomplish this quickly the active co-operation of the householder or owner is necessary. The draining or filling of swamp lands, particularly those in Kewalo, would reduce the number of mosquitoes a great deal. The time when mosquitoes breed mostly in rice fields is not when the rice is growing, but is at the time between plantings. The active co-operation of the holder" or owner at this time in the flooding of the fields or installing mosquito fish would tend to reduce the number of mosquitoes, for there are times when there are so many and weather conditions are such that some of them have bred mosquitoes.

Masi Filliangan, a rejected suitor, is



E. A. MOTT-SMITH, PRESIDENT BOARD OF HEALTH

filled, fire buckets, gutters, water troughs, lily ponds, fountains, can under sewer manholes, catch basins, and under sewer manholes, catch basins. AND HOW TO COMBAT THEM

Concise Statement Made By Dr. L. O. Howard On Disease Breeders.

pared by L. O. Howard entomologist land prices are low. Introduction.

meat, "It has been shown, for exam-ple, that, agriculturally speaking, the flows upon millions of them may ex-nor in decaying vegetation nor in lands of the Delta region of Mississippl and adjoining States are the sites is still small, an infected person produce infection by these agencies richest in the whole world, with the may remain apparently well. When, "Some Facts About Malaria" is the possible exception of the delta of the however, the number is large enough. title of a builtetin issued by the De- Nile, and yet, on account of the ex- he begins to suffer from fever. partment of Agriculture, it being pre- traordinary prevalence of malaria in this region it is sparsely settled and spores all at the same time, and it and chief of the bureau of entomol- of the cotton-boll weevil into this from the blood cells, almost simulogy. This bulletin is of especial section has had its customary effect taneously, that the fever begins value to Honolulians because it deals of ariving a considerable proportion primarily with the mosquito that is of the negro labor into other regions at the bottom of all uniaria connecting the bottom of all uniaria connecting the first try is to become impoverished it will after from 6 to 40 hours or more ing and instructive document follows: be necessary to import white labor, this poison is eliminated from the will also become infected, and the and consists in thoroughly screening It is a noticeable fact that in most malaria, but this will not be true of to leave him. parts of the world where anti-most the white labor coming into this require measures have been undertaken gion, which will undoubtedly become generation of parasites from the

on a large scale the work has been done with the direct end of doing away with measured by the disease when this is reached they in the called materially enforced at the stations on the locality is actionable to fight. This has been shown in turn break up and cause another attributed States, however, such many parts of the world—in Italy, in tack of the fever like the first, and large in the locality is attributed to fight. This has been shown in turn break up and cause another attributed States, however, such many parts of the world—in Italy, in tack of the fever like the first, and antimosquito work as has been undertaken has almost invariably been india, in Egypt, and elsewhere. Peomonths. In this way the attacks of done with the direct incentive of ple, generally, should know the exact the fever follow each other at regular simply ridding communities or local-truth about the disease and what is intervals. A. Can remove gutters or see that the great and oiled. Can the great clean and oiled the great clean and oiled. Can the great clean and oiled the great clean and oiled. Can the great clean and oiled the great clean and great

WHAT MALARIA HAS DONE TO RETARD INDUSTRY

Malarial Parasites Are Carried treatment. By Mosquitoes-Campaign | Method of Infection.

For Mosquito Killing Is Best Method of Prevention and

mission of the American publishers from an admirable summary prepared by Dr. Ronald Ross, of the Liverpool School of Tropical Medicine, who was the first discoverer of the relation between malaria and mosquitoes, some His results were soon confirmed by workers in many parts of the world. and the statements here made are accepted by the best physicians of all countries.

The Disease and Its Cause.

The disease known as malaria, or conditions fover and ague, or chills and fever, of spores.

Or marsh fever, and the varieties. These s called intermitted fever, remitted fever, and perpicious fever, are caused by parasites in the blood which feed upon the red blood cells.

Malaria occurs more or less in all warm climates, especially in the summer after rains and near marshy ground. It is said to cause one-fourth or more of all the sickness in the

Tropies. The parasites in the blood are microscopic one-celled animals called plasmodia.

These minute parasites are intro faced into the blood through the proboscis of certain mosquitoes of the genus Anopheles.

On being introduced in this way blood cells, in which it lives and

when full grown, each parasite disease, which is carried from the sick to the healthy by anopheline face.

When full grown, each parasite disease, which is carried from the sick to the healthy by anopheline face.

Their growth is rather rapid, and they may in midsummer reach full cell and enter fresh cells. This method of propagation may continue for laria is most prevalent in the vicinity

Although only a few of the paradies may have been introduced ori- these marshes produced the disease. ginally through the beak of the mos- Parasites of malaria have not been int in the blood.

At first, when the number of para-The parasites tend to produce their and streams,

Such relapses are frequerly encouraged by fatigue, heat, chill, wetting, dissipation, or illness, and they many years, in fact indefinitely.

In the same way a newcomer arriving in such a locality will very probably become infected, especially become infected house, even

attacks.

is no malaria.

Death is often caused in material persons. nationts by other diseases, such as The Malarial Mosquitoes.

meumonia or dysentery, the system larial parasites. If the patient survives, the parasites tend to die out of themselves, pheles crucians Wied., and Anopheles

The parasites are of at least three factors. kinds, which can be easily distingnished in the blood if placed under very three days and causes what is ularly in the caustal region. called quartan fever; (2) a parasite

A. punctipennis occurs in be which produces its spores every other Northern and Southern States. nost frequently occur.

Quinine kills the persent time; but success, success, the persent time is the anopheline masquitoes are discovered in the success. generally it will not destroy all the The anopheline mosquitoes are dis-parasites in the body unless it is tinguished from most other mosquitinued for several months. As long that their wings are more or less as a single parasite remains alive in spotted, and that in resting on the the blood, the patient may be subject to relapses. Ross advises that at the wall at an angle, while with most least 5 grains of sulphate of quinine others the body is parallel to the should be taken by an adult patient every day without fall for four which are nearly as long as the prononths, but he should consult a physician regarding the details of the

The malaria parasite has several different stages. Aside from those spek sheltered hiding places, and forms which produce spores in the body, there are other stages-male and female. When one of these anopheline mosquitoes, which carries malaria, happens to feed on a patient mosquito's stomach.

If the sexual forms of the parasites are present, those of opposite sexes thing over 12 years ago, in India at once unite. The parasite now undergoes certain changes in the mosquito's stonmeh. It passes through the stomach wall and finally affixes itself to its outer surface.

Here it grows very considerably and, after a week under favorable conditions, produces a large number

find their way into the salivary terfronts, in hollows in rocks, in the glands. These glands secrete the backwaters of even raphi streams, in to feed. Thus, when one of these mosqui-

patient containing the sexual forms even been found breeding in brackish of the parasites, bites, after a week, water along the seacoast. another person, it injects these spores skin and generally into his blood.

These spores now cause or may cause infection or reinfection in this second person.

Thus the parasites of malaria pass parasite enters one of the red back from these mosquitoes to men. the surface, with their heads turned cells, in which it lives and Mariarial fever is then an infectious upride down, feeding upon minute

> It has always been known that maof marshes, and it was formerly sup-

found in the water or air of marshes. Prevention and Cure. the soil, although they have been diliwhich carry these parasites, however

Issuing from these breeding places mecously, that the fever begins. hiting first one person and then other fever is probably caused by a ers, and living for weeks or months.

If an infected person happens to to carry. be present in any of these houses, the anopheline mosquitoes biting him ly a matter of personal prevention, Negroes are more or less resistant to patient's system and his fever tends disease is likely, ultimately, to be all habitations of human beings and, carried by these mosquitoes to others in the summer time, of wearing veils

Thus a whole neighborhood soon

It generally happens, however, enlarged spicen

coner or later, that the number of In such a locality, therefore, the infection is constantly passed on by parasites increase again, and the patient again suffers from a series of older children or from adults to the newly born infants, so that the local-

has moved to localities where there for one night, at a time when mosno malaria.

Besides fever, these malarial para- ity is malarious only when it conites often produce anemia and en- tains persons infected with the paralargement of the spleen, especially after, and also sufficient numbers of with patients who have suffered many the proper species of monquitoes to carry the injection to the healthy

There are in the United States only being already weakened by the ma- three species of mosquitoes which commonly carry malaria, namely, Anopheles quadrimaculatus Say, Anowithout treatment, after a long period punctipennia Say. Several other of illness, leaving him more or leas species of Anopheles are occasionally found, but are not important malarial

Anopheles quadrimaculatus is comuished in the blood if placed under monly found in the more Northern the microscope. These are (1) a States, and A crucians more abund-parasite which produces its spores antly in the Southern States, partic-

A. punctipennis occurs in both day and causes tertian fever; (3) has been found to carry quartan and parasites which cause the so-called tertian mataria in the South, but not in malignant fever or pernicious ma- the North. A number of experiments laria, which is of an irregular type have been made with this species in and in which dangerous complications the North, and especially at Baltimore and New York, to see if it will Quinine kills the parasites when carry malacial parasites, but without

given in sufficient doses and con- toes of the United States by the fact wall their bodies incline away from wall. The females also have paint bosels or beak.

The Anopheles mosquitoes above mentioned pass the winter as adults. In the autemn they enter houses stables, barns, or other outhouses, or remain there until spring. They are often found in the winter in numbers in the cellars of houses, where they may be killed by fumigation.

These mosquitoes as a rule, bite whose blood contains parasites these only after sandown. Anophejes ero are sucked, with the blood, into the cians has on rare occasions been known to bite during the day, as has A. punctipennis. This has not been recorded of A. quarimaculatus.

They do not fly far, It is doubtful whether any of these species over flies for more than half a mile.

These Anopheles mosquitoes breed in all sorts of accumulations of standing water, in pools, springs, watering troughs, in the footprints of cattle in marchy land, and in marches These spores, thus entering the drains and gutters choked with grass general body cavity of the mosquito, or weeds, in old boats along the wairritating fluid injected under the human skin when the mosquito begins rels and tubs, in cesspools, and all places carrying water accumulations whether pure or foul. Anopheles crutoes, which has fed upon a malarial cians and A. quadrimaculatus have

The minute, blackish eggs are laid together with its saliva under his on the surface of the water and are found floating on their sides singly or in groups.

Their larvae do not hang from the surface of the water by the tail, as do other mosquito larvae or "wrigfrom men to certain mosquitoes and giers" when at rest, but lie flat at

> they may in midsummer reach full size in two weeks after hatching.

When full grown transform to pupile and remain in posed that the air or exhalations from this stage at the surface of the water for three or more days, when the adult mosquitoes ispue.

There are now three recognized

means of warfare against malaria: gently searched for. Attempts to (1) The mechanical protection of individuals from the bites of malarial mosquitoes; (2) the destruction of the Anopheles mosquitoes in any or breed in marshes or in marshy pools all of their different stages of growth; (3) the systematic treatment of the The advance is at the moment these spores escape they enter nearby houses and feed with quinine until the malaria has evil into this from the blood cells, almost simufwith quintue until the malaria has of the parasites which cause this disease for the Anopheles mosquitoes The first of these methods is large-

and gloves when out of doors after sundown. This method was system-

The second measure, that of depracticed with admirable success in